What's New in the Agilent 3070 Series 3, UNIX Operating System, Software Rev. 3070 04.00pa

In this revision. . .

What's new provides an overview of the **new features**, **enhancements**, and **documentation changes** for this software revision. Topics are as follows:

- Silicon Nails Automation, 1
- Fixturing, 2
- Conversion Tool, 2
- New 3070 Product Naming Convention, 3
- Documentation Changes, 3

Silicon Nails Automation

Silicon Nails Automation enhances the current suite of Agilent 3070 Advanced Boundary-Scan software by automating the generation of the Silicon Nails ITL test files.

Silicon Nails Automation reduces the time required to produce a Silicon Nails test. This enhancement makes the test development process easier and reduces test development time in the following ways:

- Eliminates the need for visual inspection of board topology to identify resources available between the Agilent 3070 and a single boundary-scan chain.
- Identifies all resources available for the device under test.
- Eliminates the need for visual inspection of the board topology to identify disabling conditions.
- Identifies any necessary disabling.
- Automatically generates the declaration section of the ITL file.
- Identifies the required fixture resources more quickly.

NOTE

See Silicon Nails Automation on page 5-126, for more information.

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Fixturing

Fixturing in the 04.00pa release has been enhanced by the following features:

- Wireless option for wire wrapping.

  In a wireless fixture, personality pins contact only the bottom side of the PCB and do not interfere with DUT probes. The only blocked resources seen with a wireless fixture are those that are too close to tooling pins or other features that require vertical clearance on the PCB.
  The other major area of support is the creation of a fixturing output file when the wireless option is in effect. This file is designed to be easily translated into various PCB auto-router software formats.

- Fixture Graphics viewer.

  This viewer, similar to Board Graphics, allows an operator to view the fixture information during the test run.

- Fixture Defaults file.

  This file provides a template for initializing the fixture object. Common fixture information such as keepouts, type, and size can be stored in this file for use with subsequent board test development.

- Transfer probes for topside TestJet MUX cards.

  The fixture software has been changed to use transfer probes for wiring the topside TestJet MUX cards. This will eliminate the external wires in the fixture that go to the TestJet MUX card on the top plate.

NOTE

See Fixture Defaults File on page 5-50, for more information.

Conversion Tool

The cTools.ksh conversion program converts the ascii text files in a board directory for cross-platform compatibility. The converted ascii files are compiled using Test Consultant. Board files created using Serial Consultant are not converted at this time.

The conversion program allows `boards` directories to be moved from:

- an HP-UX controller to an MS Windows controller
- an MS Windows controller to an HP-UX controller

- an MS Windows controller with the board directories on one drive letter (C:/) to board directories on another drive letter (D:/)
- an HP-UX system to another HP-UX system.

NOTE

See **Test Development Tools,** Chapter 10 for more information.

NOTE

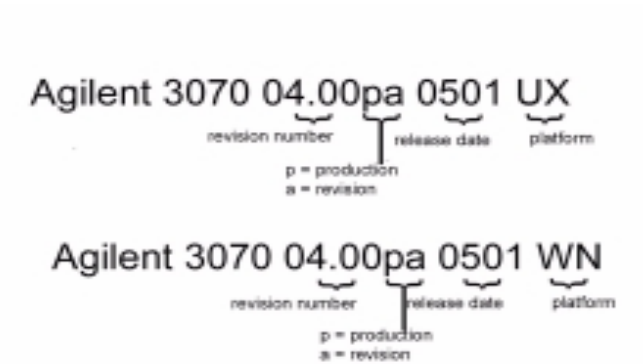
See 3070 / 79000 Communications Test documentation for more information.

Additional Changes

New 3070 Product Naming Convention

Agilent Technologies has implemented a new naming convention for all 3070 family systems, including the Agilent 79000. Example 0-1 shows the structure for the naming conventions for 3070 products for both the UNIX and Windows platforms.

Example 0-1 Product naming convention



Documentation Changes

This software revision does not include an Incremental Training Guide. Incremental Training Guides are no longer included in the Agilent 3070 User's Manual. Instead, the What's New section will list new features, and information on those features will be included in the relevant sections of the manual. What's New provides links to the pertinent chapters for new material.

Previously released Incremental Training Guides are still accessible from the Bookshelf.